

HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.

Product Compliance Division, EMC Team
SAN 136-1, AMI-RI, BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701, KOREA
TEL: +82 31 639 8518 FAX: +82 31 639 8525

CERTIFICATION

Manufacture;

IMAGEQUEST CO., LTD.

SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701, KOREA

IMAGEOUEST FRN: 0005-8664-39

Date of Issue: FEBRUARY 27, 2004

Test Report No.: HCT-F04-0210

Test Site: HYUNDAI CALIBRATION & CERTIFICATION

TECHNOLOGIES CO., LTD.

HCT FRN: 0005-8664-21

FCC ID:

PJIET1947L

MODEL:

ET1947L-0NWA-1-N-TR

Rule Part(s): Part 15 & 2; ET Docket 95-19

Equipment Class: FCC Class B Peripheral Device (JBP)

Standard(s): FCC Class B: 1998 (CISPR 22)

EUT Type: 19" LCD Monitor

Max. Resolution(s): 1280 X 1024(@80.0KHz/75Hz)
Model(s): ET1947L-0NWA-1-N-TR

Port/Connector(s) 15-pin D-sub VGA, DVI-D, Power, OSD Remote.

LCD Panel Fujitsu Display Technologies CORP. (FLC48SXC8V-10)

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2001 (Grant Notes: #19, #28).

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Report prepared by : Ki-Soo Kim

Manager of EMC Tech. Part

W SOO X

HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.



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MEASUREMENT REPORT

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

Applicant Name: IMAGEQUEST

Address: SAN 136-1, AMI-RI, BUBAL-EUP, ICHEON-SI,

KYOUNKI-DO, 467-701, KOREA

• FCC ID: PJIET1947L

• Equipment Class: FCC Class B Peripheral Device (JBP)

• EUT Type: 19" LCD Monitor

• Touch Screen Type: None

• Model(s): ET1947L-0NWA-1-N-TR

• LCD Panel: Fujitsu Display Technologies CORP. (FLC48SXC8V-10)

• Max. Resolution: 1280 X 1024(@80.0KHz/75Hz)

• Frequency Range: V-Sync: 56Hz – 75Hz, H-Sync: 31.47KHz – 80KHz

• Cable(s): Shielded D-Sub, DVI-D, Power, OSD Remote.

• Power Cord: Unshielded

• Rule Part(s): FCC Part 15 Subpart B

• Test Procedure(s): ANSI C63.4 (2001)

REPORT NO. : HCT-F04-0210 HYUNDAI C-TECH



- Dates of Tests: December 14, 2003 ~ December 29, 2003
- Place of Tests: 254-1,MAEKOK-RI,HOBUP-MYUN,ICHON-SI,KYOUNGKI-DO,467-701,KOREA

2.1 INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSIC63.4-1992) was used in determining radiated and conducted emissions emanating from IMAGEQUEST CO.,LTD. 19" LCD Monitor, Model(s): ET1947L-0NWA-1-N-TR FCC ID: PJIET1947L

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, MAEKOK-RI,HOBUP-MYUN,ICHON-SI,KYOUNGKI-DO, 467-701,KOREA. The site is constructed in conformance with the requirements of ANSI C63.4and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 23, 2003 (Confirmation Number: EA90661)



3.1 PRODUCT INFORMATION

3.2 Equipment Description

Equipment Under Test (EUT) is the IMAGEQUEST CO., Ltd.(Model :ET1947L-0NWA-1-N-TR)

19" LCD Monitor.

FCC ID: : PJIET1947L

Maximum Resolution(s):1280 X 1024(@80.0KHz/75Hz),

Frequency Range(s): H-Sync: 31.47KHz – 80KHz

V-Sync: 56Hz – 75 Hz

Pixel Pitch: 0.294mm

Power Supply: AC 100-240V 60/50Hz 3.75A

Power Cord: Unshielded AC power cord

Port(s)/Input Connector(s): D-Sub, DVI-D, Power, OSD Remote.

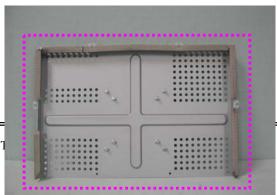
Cable(s): Shielded D-Sub, DVI-D, RS-232 (with ferrite on both ends), OSD Remote.

Dimensions (W×H×D): 417x341x46mm(W×H×D)

Weight (Net):20 lbs.

EMI Suppression Devices:

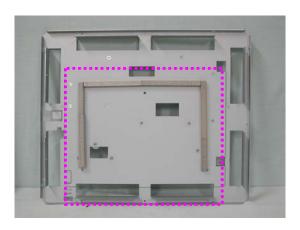
1. Attach a gasket on the Main Frame Cover



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2. Attach a gasket between Main Frame and LCD panel



3. Attach a gasket on the LCD panel





4.1 Description of Tests(Conducted & Radiated)

4.2 Powerline Conducted Emission (150kHz- 30MHz)

The power line conducted RFI measurements were performed according to CISPR 22.

The EUT was placed on a non-conducting 1.0 by 1.5 meter table which is 0.8 meters in height and 0.40 meters away from the vertical wall of the shielded enclosure. Power to the EUT is provided through a Rohde & Schwarz 50 Ω / 50 uH Line Impedance Stabilization Network (LISN) and the support equipment through a separate Solar 50 Ω / 50 uH Line- Conducted Test Facility LISN. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME. The spectrum was scanned from 150kHz to 30 MHz. Each maximum EME was remeasured using an EMI receiver. The detector function of the receiver was set to CISPR quasi- peak and average mode with the bandwidth set to 9 kHz. Each emission was maximized consistent with the typical applications by varying the configuration of the test sample. Interface cables were connected to the available interface ports of the test unit. The effect of varying the position of cables was investigated to find the configuration that produces maximum Diagram emission. Excess cable lengths were bundled at the centre with 30- 40cm. in length. The worst-case configuration is noted in the test report and the photographs are attached. Each EME reported was calibrated using the Rohde & Schwarz SMX signal generator and are listed on Table 1. RFI Conducted FCC Class B

RFI CONDUCTED	FCC CLASS B Limits dB(uV/m)					
Freq. Range	CISPR 22 Quasi-Peak	CISPR 22 Average				
150kHz - 0.5MHz	66-56*	56-46*				
0.5MHz - 5MHz	56	46				
5MHz - 30MHz	60	50				
*Limits decreases linearly with the logarithm of frequency						

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Table 1. FCC CLASS B Conducted Limits

4.3 Description of Tests(Radiated)

Radiated Emissions

Preliminary measurements were made indoors at 1 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The spectrum was scanned from 30 to 300 MHz using biconical antenna, 300 to 1000 MHz using log-periodic antenna, and above 1 GHz using linearly polarized horn antennas. Final measurements were made outdoors at 10-meter test range using Dipole antennas and EMI receiver. For frequencies above 1 GHz, horn antennas were used. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The EMI receiver detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120 kHz. The EUT, support equipment, and interconnecting cables were arranged to the configuration that produces the maximum EME emission found during preliminary scan. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Horizontal and vertical antenna polarizations were checked. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/ or support equipment, and powering the monitor the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

ITE Radiated Limits								
Frequency (MHz)	FCC Limit @ 3m. Quasi- Peak dB[µV/m]	FCC Limit @ 10m.* Quasi – Peak dB [µV/m]	CISPR Limit @ 10m. Quasi-Peak dB [µV/m]					
30-88	40.0	29.5	30.0					
88-216	43.5	33.0	30.0					
216-230	46.0	35.6	30.0					
230-960	46.0	35.6	37.0					
960-1000	54.0	43.5	37.0					
> 1000	54.0	43.5	No Specified Limit					

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* Limit extrapolated 20 dB/decade

Table 2. Radiated Class B limits @ 10-meters

5.1 Support Equipment Used

DEVICE TYPE	MANUFACTURER	MODEL NUMBER	FCC ID / DoC	CONNECTED TO
MONITOR (EUT)	IMAGEQUEST CO., LTD.	ET1947L-0NWA-1-N-TR	PJIET1947L	P.C
P.C	Н.Р	HP Pavilion 730K	DoC	N/A
KEY BOARD	Н.Р	5181	DoC	P.C
MOUSE	Microsoft	IntelliMouse	DoC	P.C
PRINTER	H/P	C4569A	DoC	P.C

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5.2 Cable Description

	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
MONITOR(EUT)	N	Y	1.8(P), 1.8(D)
PC(HOST)	N	N/A	1.8(P)
KEY BOARD	N/A	Y	1.5(D)
MOUSE	N/A	Y	1.5(D)
PRINTER	N	Y	1.8(P),1.8(D)

The marked "(D)" means the Data Cable and "(P)" means the Power Cable.

5.3 Noise Suppression Parts on Cable. (I/O CABLE)

	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
MONITOR(D-SUB)	Y	BOTH END	Y	BOTH END
MONITOR(DVI-D)	Y	BOTH END	Y	BOTH END
KEY BOARD	N	N/A	Y	P.C END
MOUSE	Y	P.C END	Y	P.C END
PRINTER	N	N/A	Y	BOTH END

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6.1 LINE-CONDUCTED TEST DATA

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ET1947L-ONWA-1-N-TR Manufacturer: ImageQuest Co., Ltd.
Operating Condition: 1280 X 1024 75Hz (A)

Test Site: SHIELD ROOM Operator: BK, HAM Test Specification: CISPR 22 CLASS B

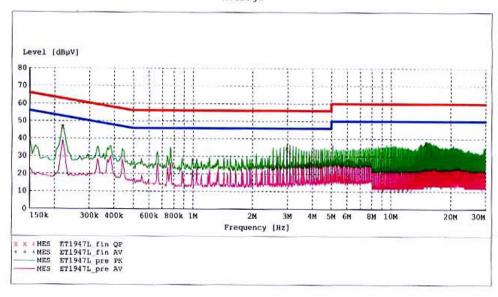
Comment:

Start of Test:

12/26/03 / 2:40:54PM

SCAN TABLE: "CISPR 22 Voltage"

Short Description: CISPR 22 Voltage Step Start Stop Detector Meas. IF Transducer Frequency Frequency Width Time Bandw. 150.0 kHz 500.0 kHz 5.0 kHz MaxPeak 10.0 ms 9 kHz None Average 500.0 kHz 5.0 MHz 5.0 kHz MaxPeak 10.0 ms 9 kHz None Average



MEASUREMENT RESULT: "ET1947L_fin QP"

12/26/03 2:43PM Frequency Level Transd Limit Margin Line PE MHz dBµV dB dBµV dB 0.220000 46.60 10.1 16.2 2.980000 34.50 10.2 56 21.5 15.010000 37.10 10.5

MEASUREMENT RESULT: "ET1947L_fin AV" 12/26/03 2:43PM

Level Transd Limit Frequency Margin Line PE MHZ dBµV dB dBµV dB 0.220000 38.20 10.1 53 3.090000 31.70 10.2 46 14.3 15.230000 34.30 10.5 50 15.7

Page 1/1 12/26/03 2:43PM ET1947L



ET1947L-ONWA-1-N-TR Manufacturer: ImageQuest Co., Ltd.
Operating Condition: 1280 X 1024 75Hz (A)
Test Site: SHIELD ROOM

Operator:

вк, нам

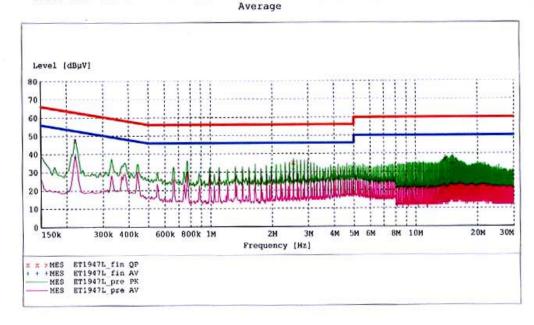
Comment:

Test Specification: CISPR 22 CLASS B

Start of Test:

12/26/03 / 2:37:29PM

SCAN TABLE: "CISPR 22 Voltage" Short Description: CISPR CISPR 22 Voltage Step IF Transducer Detector Meas. Start Stop Bandw. Frequency Frequency Width 150.0 kHz 500.0 kHz 5.0 kHz Time 10.0 ms 9 kHz MaxPeak None Average 10.0 ms 9 kHz None 500.0 kHz 5.0 MHz 5.0 kHz MaxPeak



MEASUREMENT RESULT: "ET1947L_fin QP" 12/26/03 2:39PM Frequency Level Transd Limit Margin Line PE dBµV dB dBµV dB MHz 10.1 0.220000 47.40 63 15.5 1 35.20 20.8 1 2.540000 10.3 56 13.910000 10.5 60 23.4 1 36.60

PE	Line	Margin	Limit	museed		Date many and
L.D.	prue			Transd	Level	Frequency
		dB	dBpV	dB	dΒμV	MHz
	1	14.1	53	10.1	38.70	0.220000
	1	14.6	46	10.3	31.40	2.540000
	1	15.7	50	10.5	34.30	15.125000

Page 1/1 12/26/03 2:39PM ET1947L



ET1947L-ONWA-1-N-TR Manufacturer: ImageQuest Co., Ltd.

Operating Condition: 1280 X 1024 75Hz (D)

Test Site: SHIELD ROOM Operator: BK, HAM

Test Specification: CISPR 22 CLASS B

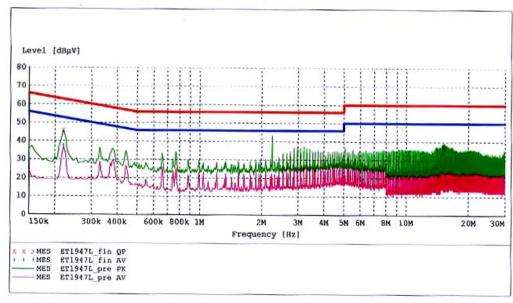
Comment: Start of Test: 12/26/03 / 2:46:13PM

SCAN TABLE: "CISPR 22 Voltage"
Short Description: CISPR CISPR 22 Voltage Start Stop Step Frequency Frequency Width 500.0 kHz 5.0 kHz Step Detector Meas. IF Transducer Time Bandw. MaxPeak 10.0 ms 9 kHz None Average

500.0 kHz 5.0 MHz 5.0 kHz 10.0 ms 9 kHz MaxPeak

Average

None



MEASUREMENT RESULT: "ET1947L fin QP"

2/20/03	2:48	PM					
Freque	ncy MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.220	000	45.80	10.1	63	17.0	1	
2.250	000	18.80	10.3	56	37.2	1	
15.230	000	37.10	10.5	60	22.9	1	

MEASUREMENT RESULT: "ET1947L fin AV"

Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
37.60	10.1	53	15.2	1	
32.00	10.2	46	14.0	1	
34.20	10.5	50	15.8	1	
	Level dBμV 37.60 32.00	dBµV dB 37.60 10.1 32.00 10.2	Level Transd Limit dBμV dB dBμV 37.60 10.1 53 32.00 10.2 46	Level Transd Limit Margin dBμV dB dBμV dB 37.60 10.1 53 15.2 32.00 10.2 46 14.0	Level Transd Limit Margin Line dBμV dB dBμV dB 37.60 10.1 53 15.2 1 32.00 10.2 46 14.0 1

Page 1/1 12/26/03 2:48PM ET1947L



ET1947L-ONWA-1-N-TR

Manufacturer: ImageQuest Co., Ltd. Operating Condition: 1280 X 1024 75Hz (D)

Test Site:

SHIELD ROOM

Operator:

BK, HAM

Test Specification: CISPR 22 CLASS B

Comment: Start of Test:

12/26/03 / 2:49:36PM

SCAN TABLE: "CISPR 22 Voltage"
Short Description: CISPR

CISPR 22 Voltage

Step

Detector Meas. Time

IF Transducer

Start Stop Step Frequency Frequency Width 150.0 kHz 500.0 kHz 5.0 kHz

MaxPeak

Bandw.

Average

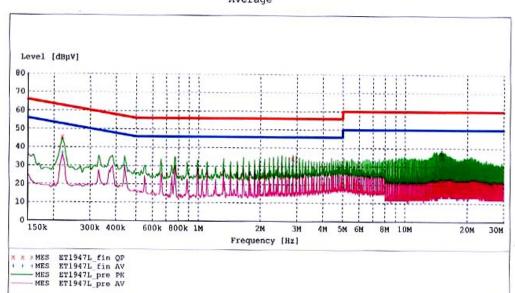
10.0 ms 9 kHz

None

500.0 kHz 5.0 MHz 5.0 kHz

MaxPeak Average

10.0 ms 9 kHz None



MEASUREMENT RESULT: "ET1947L fin QP"

2:51	PM		_			
ncy MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
000	45.50	10.1	63	17.3	1	
000	34.00	10.2	56	22.0	1	
000	37.00	10.5	60	23.0	1	
	ncy MHz 000 000	ncy Level MHz dBµV 000 45.50 000 34.00	MHz dBμV dB 000 45.50 10.1 000 34.00 10.2	ncy Level dBμV Transd dB dBμV 000 45.50 10.1 63 000 34.00 10.2 56	ncy Level dBμV Transd dB dBμV Limit dB dBμV Margin dB 000 45.50 10.1 63 17.3 000 34.00 10.2 56 22.0	ncy Level dBμV Transd dB dBμV Limit dB dBμV Margin dB Line dB 000 45.50 10.1 63 17.3 1 000 34.00 10.2 56 22.0 1

MEASUREMENT RESULT: "ET1947L fin AV"

2/26/03 2:51	PM		_			
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.220000	36.90	10.1	53	15.9	1	
2.870000	30.50	10.2	46	15.5	1	
15.115000	34.40	10.5	50	15.6	1	

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NOTES:

- 1. All modes of operation were investigated and the worst-case emissions are reported.
- 2. The CISPR RFI conducted limits are listed on Table 1(Page 8).
- 3. Line H = Phase Line N = Neutral

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^{**} Measurements using CISPR quasi-peak mode.

7.1 RADIATED TEST DATA

1. PRODUCT : 19" LCD MONITOR 6. TEST DATE : 2003. 12. 18
2. MODEL : ET1947L-0NWA-1-N-TR 7. TESTED BY : Byung-Ki Ham

3. CLIENT : IMAGEQUEST CO., LTD. 4. COMMENT : 1280 X 1024 75Hz (DIGITAL)

5. STANDARD : **EN55022**

Frequency MHz	Reading dBuV	Ant. Factor	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
39.0	9.06	15.72	1.3	V	26.1	3Ø	3.9
78.6	15.61	6.90	2.0	V	24.5	3Ø	5.5
120.5	10.81	12.78	2.4	V	26.0	3Ø	4.0
144.8	5.39	14.67	2.6	Н	22.7	3Ø	7.3
228.4	4.56	17.04	3.4	V	25.0	3Ø	5.0
260.9	9.44	17.68	3.7	V	30.8	37	6.2
336.8	9.22	16.39	4.2	Н	29.8	37	7.2
389.3	8.16	16.84	4.5	Н	29.5	37	7.5
433.0	7.45	17.92	4.8	Н	30.1	37	6.9
620.3	3.22	21.76	5.7	Н	30.7	37	6.3
678.0	3.64	22.58	6.0	Н	32.2	37	4.8
811.3	3.51	23.81	6.4	Н	33.8	37	3.2

Radiated Measurements at 10-meters.

1280 X 1024 (@80.0KHz/ 75Hz)

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1. PRODUCT: 19" LCD MONITOR6. TEST DATE: 2003.12.182. MODEL: ET1947L-0NWA-1-N-TR7. TESTED BY: Byung-Ki Ham

3. CLIENT : IMAGEQUEST CO., LTD. 4. COMMENT : 1280 X 1024 75Hz (ANALOG)

5. STANDARD : EN55022

Frequency MHz	Reading dBuV	Ant. Factor	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
39.0	9.06	15.72	1.3	٧	26.1	3Ø	3.9
78.6	15.61	6.90	2.0	V	24.5	30	5.5
120.5	10.81	12.78	2.4	٧	26.0	30	4.0
144.8	5.39	14.67	2.6	Н	22.7	30	7.3
228.4	4.56	17.04	3.4	٧	25.Ø	3Ø	5.0
260.9	9.44	17.68	3.7	٧	30.8	37	6.2
336.8	9.22	16.39	4.2	Н	29.8	37	7.2
389.3	8.16	16.84	4.5	Н	29.5	37	7.5
433.0	7.45	17.92	4.8	Н	30.1	37	6.9
620.3	3.22	21.76	5.7	Н	30.7	37	6.3
678.0	3.64	22.58	6.0	Н	32.2	37	4.8
811.3	3.51	23.81	6.4	Н	33.8	37	3.2

Radiated Measurements at 10-meters.

1280 X 1024 (@80.0KHz/ 75Hz)

NOTES:

- 1. All modes of operation were investigated, and the worst-case emissions are reported.
- 2. The radiated limits are listed on Table 2 (Page 9).
- ** AFCL = Antenna Factor (Roberts dipole) and Cable Loss.
- *** Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

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8.1 Sample Calculations

8.2 Example 1:

@ 0.755 MHz

Class B limit = $56 \text{ dB}\mu\text{V}$

Reading = 40.3 dB μ V (calibrated level)

Margin = 40.3 - 60.0 = - 15.7

= 15.7 dB below limit

8.3 Example 2:

@ 38.1 MHz

Class B limit = $30 \text{ dB}\mu\text{V/m}$

Reading = $9.04 \text{ dB}\mu\text{V/m}$ (calibrated level)

Antenna Factor + Cable Loss = 17.02 dB

Total = $26.06 \text{ dB}\mu\text{V/m}$

Margin = 26.1 - 30.0 = -3.9

= 3.9 dB below limit

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9.1 Test Equipment

Type	Manufacture	Model Number	CAL Date
EMI Test Receiver	Rohde & Schwarz	ESH3	2003.07.16
EMI Test Receiver	Rohde & Schwarz	ESVP	2003.10.01
EMI Test Receiver	Rohde & Schwarz	ESI40	2003.11.16
EMI Test Receiver	Rohde & Schwarz	ESVS30	2003.07.16
LISN	Rohde & Schwarz	ESH2-Z5	2003.08.15
LISN	EMCO	3825/2	2004.02.24
Amplifier	Hewlett-Packard	8447E	2003.08.23
Absorbing Clamp	Rohde & Schwarz	MDS-21	2003.04.24
Tri log Antenna	Schwarzbeck	VULB 9160	2003.08.24
Dipole Antennas	Schwarzbeck	VHAP	2003.07.25
Dipole Antennas	Schwarzbeck	UHAP	2003.07.25
Biconical Antenna	Schwarzbeck	VHA9103	2003.07.23
Log-Periodic Antenna	Schwarzbeck	UHALP9107	2003.07.23
Antenna Position Tower	HD	MA240	N/A
Turn Table	EMCO	1060-06	N/A
Reference Network Impedance	Voltech	IEC 555	N/A
AC Power Source	PACIFIC	Magnetic Module	N/A
Controller	HD GmbH	HD 100	N/A
Slide Bar	HD GmbH	KMS 560	N/A



10.1 Test Software Used

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained on a 3-1/2 inch disc, was inserted into drive A and is auto starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is :(1) Display test, (2) RS 232 test (3) Key board test,(4) Printer test,(5) FDD test,(6) HDD test. The complete cycle takes about 20 seconds and is repeated continuously. As the keyboard and mouse are strictly input devices, no data is transmitted to them during test. They are however, continuously scanned for data input activity. The video resolution modes setup and change program was used during the radiated and conducted emission testing.

NOTE: This is a sample of the basic program used during the test. However, during testing, a different software program may be used; whichever determines the worst-case condition. In addition, the program used also depends on the number and type of devices being tested.

Actual program used is the "H" pattern in Notepad under Windows environment. All resolution modes (1280×1024 , 1152×864 , 1024×768 , 832×624 , 800×600 , 720×400 , 640x480,) were investigated and tested.



11.1 Conclusion

The data collected shows that the IMAGEQUEST CO., LTD. 19" LCD Monitor, FCC ID:PJIET1947L, Model(s): ET1947L-0NWA-1-N-TR complies with §15.107 and §15.109 of the FCC Rules.

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